

Figure 18-6. Two-Stage Dilution Apparatus.

## PREPARATION OF STANDARDS BY DILUTION OF CYLINDER STANDARD

[Cylinder Standard: Organic \_\_\_\_\_ Certified Concentration \_\_\_\_\_ ppm]

Standards preparation data:	Date:		
	Mixture 1	Mixture 2	Mixture 3
Stage 1: Standard gas flowmeter reading. Diluent gas flowmeter reading Laboratory temperature (°K) Barometric pressure (mm Hg) Flowmeter gage pressure (mm Hg) Flow rate cylinder gas at standard conditions (ml/min) Flow rate diluent gas at standard conditions (ml/min) Calculated concentration (ppm) Stage 2 (if used): Standard gas flowmeter reading Diluent gas flowmeter reading Flow rate Stage 1 gas at standard conditions (ml/min) Flow rate diluent gas at standard conditions Calculated concentration (ppm) GC Operating Conditions: Sample loop volume (ml) Sample loop temperature (°C) Carrier gas flow rate (ml/min) Column temperature: Initial (°C) Program rate (°C/min) Final (°C) Organic Peak Identification and Calculated Concentrations:			

## PREPARATION OF STANDARDS BY DILUTION OF CYLINDER STANDARD—Continued

[Cylinder Standard: Organic ——— Certified Concentration ——— ppm]

Standards preparation data:	Date:		
	Mixture 1	Mixture 2	Mixture 3
Injection time (24-hour clock)			
Distance to peak (cm)			
Chart speed (cm/min)			
Retention time (min)			
Attenuation factor			
Peak area (mm <sup>2</sup> )			
Peak area *attenuation factor			

Plot peak area \*attenuation factor against calculated concentration to obtain calibration curve.

Figure 18-7. Standards Prepared by Dilution of Cylinder Standard

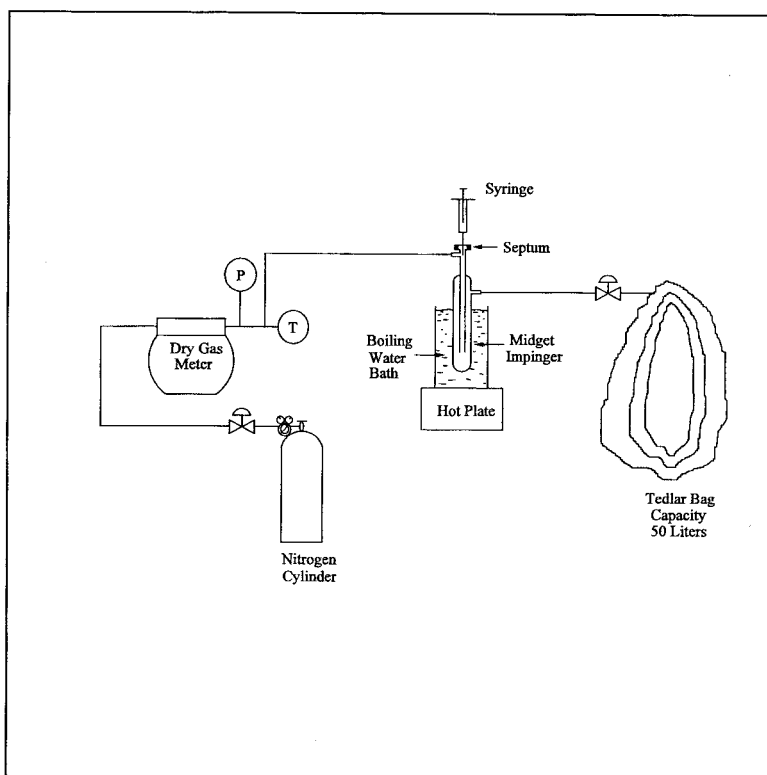


Figure 18-8. Apparatus for Preparation of Liquid Materials.